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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	New Application
Filing Date	April 19, 2004
First Named Inventor	Hyungsoo Choi
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	22010-209

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
/M.Z./		KRUSE, WALTER, ET AL.: "Synthesis and configuration of hydrido(alkyl phosphito)-cobalt and-iron compounds" CHEM. COMMUN., no. 15, 1968, pages 921-922	
/M.Z./		McEWEN, G. K., et al.: "Preparation of hydridonickel phosphites" INORG. CHEM., vol. 13, no. 12, 1974, pages 2800-2802	
/M.Z./		GÖSSER, L. W.: "Synthesis and properties of cobalt(II) compounds. 3. Hydridoacetoniitriletris (triaryl phosphite) cobalt complexes" INORG. CHEM., vol. 15, no. 6, 1976, pages 1348-1351	
/M.Z./		ANDERSON, LORI BETH, ET AL.: "Chemistry of transition-metal phosphine and phosphite complexes. 2. Preparation and properties of XHgCoP(OC6H5)3/31" INORG. CHEM. (1982), 21(5), 2095-7, vol. 21, no. 5, 1982, pages 2095-2097	
/M.Z./		CARLTON, LAURENCE: "Rhodium pentafluorophenylthiolate complexes derived from "Rh2(mu-SC6F5)2(PPh3)4" J. ORGANOMET. CHEM., vol. 431, no. 1, 1982 - 2095, page 2097	
/M.Z./		RAKOWSKI, M. C., ET AL.: "Low valent cobalt trisopropyl phosphite complexes. Characterization of a catalyst for the hydrogenation of .alpha.,.beta.-unsaturated ketones" J. AM. CHEM. SOC., vol. 99, no. 3, 1977, pages 739-743	
/M.Z./		MUETTERTIES, E. L. ET AL.: "Reductive elimination reactions" J. AM. CHEM. SOC., vol. 98, no. 15, 1976, pages 4665-4667	
/M.Z./		MUETTERTIES, E. L. ET AL.: "Chemistry of the transition metal-hydrogen bond. II. HCoP(OR)3/31" J. AM. CHEM. SOC., vol. 96, no. 26, 1974, pages 7920-7926	
/M.Z./		MUETTERTIES, E. L. ET AL.: "Complexity in the reductive reaction of cobalt (II) chloride in the presence of phosphites. Isolation of stable, noninterconvertible CoP(OR)3/31 and Co2P(OR)3/31 molecules" J. AM. CHEM. SOC., vol. 104, no. 10, 1982, pages 2940-2942	
/M.Z./		LEVISON, JEFFREY J. ET AL.: "Transition-metal complexes containing phosphorus ligands. I. Triaryl phosphite complexes of cobalt and nickel" J. CHEM. SOC. A, no. 1, 1970, pages 96-99	
/M.Z./		DATABASE CA "Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US: PARSHALL, G. W.: "Homogeneous catalytic activation of hydrocarbons" retrieved from STN Database accession no. 85:176606 abstract & ORGANOTRANSITION-MET. CHEM., PROC. JPN.-AM. SEMIN., 1ST (1975), MEETING DATE 1974, 127-34. EDITOR(S): ISHII, YOSHIO; TSUTSUI, MINORU. PUBLISHER: PLENUM, NEW YORK, NY	
/M.Z./		CHATT, J. ET AL.: "Hydrido-complexes of Iridium (III) Stabilised by Tertiary Phosphines and Arsines" J. CHEM. SOC. A, 1965, pages 7391-7405	
/M.Z./		BAREFIELD, E. K., ET AL.: "Catalysis of Aromatic Hydrogen-Deuterium Exchange by Metal Hydrides" J. AM. CHEM. SOC. 92:17, 1970, pages 5234-5235	
/M.Z./		TITUS, D. D., ET AL.: "The Crystal and Molecular Structure of Hydridotetrakis (diethyl phenylphosphonite) cobalt (I)," CHEMICAL COMMUNICATIONS, 1971, pages 322-323	

Examiner Signature	/Marc Zimmer/	Date Considered	02/09/2009
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/M.Z./		LANE, P. A. ET AL.: "Metal Organic CVD of Cobalt Thin Films Using Cobalt Tricarbonyl Nitrosyl" CHEM. VAP. DEPOSITION 1998, 4, No. 5, pages 183-186	
/M.Z./		MARUYAMA, T.: "Cobalt Thin Films Prepared by Chemical Vapor Deposition from Cobalt Acetylacetonates" JPN. J. APPL. PHYS., Vol. 36, 1997 Pt. 2, No. 6A, pages L705-L707	
/M.Z./		GROSS, M. E., ET AL.: "Organometallic chemical vapor deposition of cobalt and formation of cobalt disilicide" J. VAC. SCI. TECHNOL. B 6 (5), Sep/Oct 1988, pages 1548-1552	
/M.Z./		DORMANS, G. J. M., ET AL.: "OMCVD of cobalt and cobalt silicide" J. CRYSTAL GROWTH, Vol. 114, 1991, pages 364-372	
/M.Z./		WERNER, H., ET AL.: "Synthesis and Reactivity of OsH(n'-CH ₂ PMe ₂)(PMe ₃) ₃ and of the Basic Dithydrodoosmium Complex cis-OsH ₂ (PMe ₃) ₄ " J. CHEM. SOC., No. 2 1983, pages 547-549	
/M.Z./		GERLACH, D. H., ET AL.: "Stereochemically Nonrigid Six-Coordinate Molecules. II. Preparations and Reactions of Tetrakis (organophosphorus) Metal Dihydride Complexes" J. AM. CHEM. SOC., 94:13, 1972, pages 4545-4549	
/M.Z./		SMITH, K. C., ET AL.: "Evaluation of precursors for chemical vapor deposition of ruthenium" THIN SOLID FILMS, No. 376, 2000, pages 73-81	
/M.Z./		MEIER, M., ET AL.: "Tetrakis (Triethyl Phosphite) Nickel (0), Palladium (0), and Platinum (0) Complexes" INORGANIC SYNTHESIS, Vol. 13, 1972, pages 112-116	
/M.Z./		TITUS, D., ET AL.: "Low-Valent Metal Complexes of Diethyl Phenylphosphonite" INORGANIC SYNTHESIS, Vol. 13, 1972, page 117	
/M.Z./		COULSON, D. R.: "Tetrakis (Triphenylphosphine) Palladium (0)" INORGANIC SYNTHESIS, Vol. 13, 1972, pages 121-123	
/M.Z./		SCHUNN, R. A.: "Tetrakis (Triphenylphosphine) Nickel (0)" INORGANIC SYNTHESIS, Vol. 13, 1972, page 124	
/M.Z./		YOSHIDA, T., ET AL.: "Two-Coordinate Phosphine Complexes of Palladium (0) and Platinum (0)" INORGANIC SYNTHESIS, Vol. 19, 1979, pages 101-111	
/M.Z./		"Pentakis (Trimethyl Phosphite) Iron (0)" INORGANIC SYNTHESIS, Vol. 120, 1980, pages 79-81	
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Signature

/Marc Zimmer/

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